

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

09/02/22 through 09/08/22

Crops (Leafout Date)	#148 Merced			#39 Parlier			#258 Lemon Cove		
	9/2 - 9/8 Water Use	Accum'd Seasonal Water Use	9/9 - 9/15 Estimated ETc	9/2 - 9/8 Water Use	Accum'd Seasonal Water Use	9/9 - 9/15 Estimated ETc	9/2 - 9/8 Water Use	Accum'd Seasonal Water Use	9/9 - 9/15 Estimated ETc
Almonds (3/1) *	1.73	41.47	1.47	1.79	42.57	1.35	1.72	39.60	1.26
Pistachio (4/8) * **	1.73	36.47	1.38	1.77	37.63	1.26	1.69	34.75	1.17
Citrus (2/1)	1.16	31.50	1.09	1.21	32.37	0.99	1.16	30.32	0.90
Raisin Grapes (3/15) (11 ft. row spacing)	1.15	24.08	1.01	1.17	24.86	0.91	1.12	22.92	0.83
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	1.31	26.48	1.13	1.35	27.28	1.03	1.29	25.16	0.95
Walnuts (4/8)	1.54	37.12	1.33	1.59	38.29	1.21	1.52	35.48	1.14
Stone Fruit (3/10)	1.77	34.78	1.54	1.82	35.81	1.42	1.73	33.00	1.33
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.98			1.94			1.82		

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

* Estimates are for orchard floor conditions where vegetation is managed by some combination of strip applications of herbicides, frequent mowing or tillage, and by mid and late season shading and water stress. Weekly estimates of soil moisture loss can be as much as 25 percent higher in orchards where cover crops are planted and managed more intensively for maximum growth.

** Very vigorous, non-salt affected peak season pistachio Kc can be as high as 1.19 – resulting in about 8% greater water use than shown in these tables.

PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY ¹

Crops	#148 Merced				#39 Parlier				#258 Lemon Cove			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>												
Almonds (3/1)	2.7	2.3	2.0	1.8	2.8	2.4	2.1	1.9	2.6	2.3	2.0	1.8
Pistachio (4/8)	2.7	2.3	2.0	1.8	2.7	2.4	2.1	1.9	2.6	2.3	2.0	1.8
Citrus (2/1)	1.8	1.5	1.4	1.2	1.9	1.6	1.4	1.3	1.8	1.5	1.4	1.2
Raisin Grapes (3/15) (11 ft. row spacing)***	Assume all grape			1.2	Assume all grape			1.2	Assume all grape			1.2
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis) ***	irrigation type is drip			1.4	irrigation type is drip			1.4	irrigation type is drip			1.4
Walnuts (4/8)	2.4	2.1	1.8	1.6	2.4	2.1	1.9	1.7	2.3	2.0	1.8	1.6
Stone Fruit (3/10)	2.7	2.4	2.1	1.9	2.8	2.4	2.1	1.9	2.7	2.3	2.0	1.8

¹ The amount of water required by a specific irrigation system to satisfy evapotranspiration. Typical ranges in irrigation system efficiency are: Drip, 80%-95%; Micro-sprinkler, 80%-90%; Sprinkler, 70%-85%; and Border-furrow, 50%-75%.

PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

Crops	#148 Merced				#39 Parlier				#258 Lemon Cove			
	Almonds 115 Trees/A	638	543	472	425	661	567	496	449	614	543	472
Pistachio 106 Trees/A	673	573	498	448	673	598	523	473	648	573	498	448
Citrus 110 Trees/A	444	370	346	296	469	395	346	321	444	370	346	296
Raisin Grapes 566 Vines/A	Assume all grape			58	Assume all grape			58	Assume all grape			58
Winegrapes 622 Vines/A	irrigation type is drip			61	irrigation type is drip			61	irrigation type is drip			61
Walnuts 76 Trees/A	857	750	643	572	857	750	679	607	822	715	643	572
Stonefruit 172 Trees/A	426	379	332	300	442	379	332	300	426	363	316	284

For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.

WEEKLY SOIL MOISTURE LOSS IN INCHES

(Estimated Crop Evapotranspiration or ET_c)

09/02/22 through 09/08/22

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	9/2- 9/8 Water Use	Accum'd Seasonal Water Use	9/9- 9/15 Estimated ETc	9/2- 9/8 Water Use	Accum'd Seasonal Water Use	9/9- 9/15 Estimated ETc	9/2- 9/8 Water Use	Accum'd Seasonal Water Use	9/9- 9/15 Estimated ETc
Almonds (3/1) *	1.90	45.92	1.51	1.85	47.67	1.65	2.09	48.98	1.61
Pistachio (4/8) * **	1.91	39.99	1.42	1.85	41.38	1.56	2.10	42.66	1.52
Citrus (2/1)	1.32	34.81	1.06	1.29	36.23	1.17	1.47	36.89	1.14
Raisin Grapes (3/15) (11 ft. row spacing)	1.27	26.38	1.05	1.22	27.37	1.11	1.39	28.18	1.08
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	1.45	28.89	1.16	1.41	29.95	1.28	1.60	30.90	1.25
Walnuts (4/8)	1.70	40.70	1.37	1.66	42.24	1.51	1.88	43.48	1.47
Stone Fruit (3/10)	1.96	38.16	1.58	1.90	39.53	1.72	2.16	40.77	1.68
Past 7 days precipitation (inches)	0.00			0.00			0.00		
Accumulated precipitation (inches) (1/1/2022)	1.24			1.11			1.30		

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

* Estimates are for orchard floor conditions where vegetation is managed by some combination of strip applications of herbicides, frequent mowing or tillage, and by mid and late season shading and water stress. Weekly estimates of soil moisture loss can be as much as 25 percent higher in orchards where cover crops are planted and managed more intensively for maximum growth.

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PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY ¹

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/1)	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9	3.2	2.8	2.5	2.2
Pistachio (4/8)	2.9	2.5	2.2	2.0	2.8	2.5	2.2	1.9	3.2	2.8	2.5	2.2
Citrus (2/1)	2.0	1.8	1.6	1.4	2.0	1.7	1.5	1.4	2.3	2.0	1.7	1.5
Raisin Grapes (3/15) (11 ft. row spacing)	Assume all grape			1.3	Assume all grape			1.3	Assume all grape			1.5
Winegrapes (3/15) (10 ft. spacing on California Sprawl Trellis)	irrigation type is drip			1.5	irrigation type is drip			1.5	irrigation type is drip			1.7
Walnuts (4/8)	2.6	2.3	2.0	1.8	2.6	2.2	2.0	1.7	2.9	2.5	2.2	2.0
Stone Fruit (3/10)	3.0	2.6	2.3	2.1	2.9	2.5	2.2	2.0	3.3	2.9	2.5	2.3

¹ The amount of water required by a specific irrigation system to satisfy evapotranspiration. Typical ranges in irrigation system efficiency are: Drip, 80%-95%; Micro-sprinkler, 80%-90%; Sprinkler, 70%-85%; and Border-furrow, 50%-75%.

PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
	685	590	519	472	661	590	519	449	756	661	590	519
Almonds 115 Trees/A	685	590	519	472	661	590	519	449	756	661	590	519
Pistachio 106 Trees/A	722	623	548	498	698	623	548	473	797	698	623	548
Citrus 110 Trees/A	494	444	395	346	494	420	370	346	568	494	420	370
Raisin Grapes 566 Vines/A	Assume all grape			62	Assume all grape			62	Assume all grape			72
Winegrapes 622 Vines/A	irrigation type is drip			65	irrigation type is drip			65	irrigation type is drip			74
Walnuts 76 Trees/A	929	822	715	643	929	786	715	607	1036	893	786	715
Stonefruit 172 Trees/A	474	410	363	332	458	395	347	316	521	458	395	363

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